

Features

- Good rejection
- Small size
- Temperature stable
- LTCC construction with great moisture resistance, corrosion resistance, and high reliability

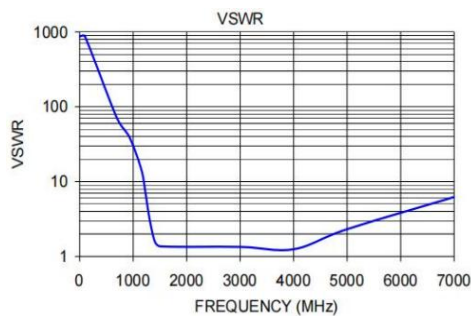
Applications

- Back Haul Radio Systems
- Test and Measurement Equipment

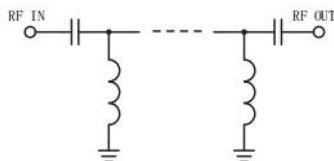
Electrical Specifications¹ at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	1400-5000	-	2.0	-	dB
	VSWR	1510-4000	-	-	1.3	dB
	VSWR	1400-4000	-	1.5	-	:1
Stop Band	Rejection Loss	690	40	-	-	dB
	Cutoff Frequency	930	20	-	-	dB
	VSWR	1300	-	3.0	-	dB
	VSWR	690-930	-	20	-	:1

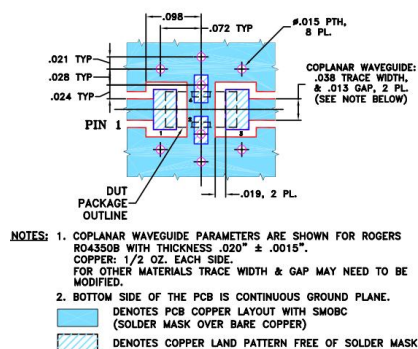
1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.



electrical schematic



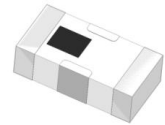
Suggested PCB Layout



NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. (SOLDER MASK OVER BARE COPPER)
■ DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
■ DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

JY-HFCN-1300+



Generic photo used for illustration purposes only

50Ω 1400 to 5000 MHz

Pin Connections

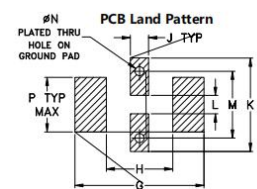
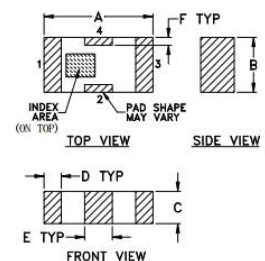
RF IN	1
RF OUT	3
GROUND	2,4

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W at 25°C

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



Suggested Layout
Tolerance to be within ±0.05

Outline Dimensions: Unit (mm)

A	3.20	B	1.60	C	0.94
D	0.51	E	0.81	F	0.23
G	4.29	H	2.21	J	0.61
K	3.10	L	0.61	M	2.21
N	0.30	P	1.8	wt	0.02g